



| Product type designation | Product designation | | | | Auxiliary contactor |
|--|---|---|-----------|------|---------------------|
| Non-act characteristics | Product type designat | ion | | | |
| Number of poles | | | | | 20.00 |
| Rated insulation voltage Ui IEC/EN V 690 Rated impulse withstand voltage Uimp | | | | Nr. | 4 |
| Rated impulse withstand voltage Uimp | | ge Ui IEC/EN | | | |
| Min | | | | kV | |
| Max | | • | | | |
| Max Hz 400 | , , | | min | Hz | 25 |
| Short-time allowable current for 10s (IEC/EN60947-1) | | | | | |
| Protection fuse gG (IEC) | IEC Conventional free | air thermal current Ith | | Α | 10 |
| Protection fuse gG (IEC) A 16 Tightening torque for terminals min Nm Nm Nm 1 nmin lbin 9 max lbin 9 Tightening torque for coil terminal Min Nm | Short-time allowable of | current for 10s (IEC/EN60947-1) | | Α | 0 |
| Tightening torque for terminals | | | | | |
| Tightening torque for terminals | | | gG (IEC) | Α | 16 |
| Min | Tightening torque for t | erminals | <u> </u> | | |
| Max Nm 1 1 1 1 1 1 1 1 1 | 3 3 1 | | min | Nm | 0.8 |
| Tightening torque for coil terminal min Nm 0.8 max Nm 1 min lbin 9 max lbin 12 max min mm² 2.5 max max max 2.5 max max max max | | | max | Nm | |
| Tightening torque for coil terminal | | | min | lbin | 9 |
| Min Nm 0.8 Min 1 Min | | | max | lbin | 9 |
| Min Nm 0.8 Min 1 Min | Tightening torque for o | coil terminal | | | |
| Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil max 12 Flexible w/o lug conductor section min mm² 2.5 Flexible c/w lug conductor section min mm² 2.5 Flexible with insulated spade lug conductor section min mm² 1.5 Flexible with insulated spade lug conductor section min mm² 1.5 Power terminal protection according to IEC/EN 60529 IP20 when properly wired Mechanical features normal allowable Vertical plan ±30° Fixing Screw / DIN rail 35mm | | | min | Nm | 0.8 |
| Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil max 12 Flexible w/o lug conductor section min mm² mm² 0.75 max mm² 2.5 Flexible c/w lug conductor section min mm² mm² 1.5 max mm² 2.5 Flexible with insulated spade lug conductor section min mm² mm² 1.5 max mm² 2.5 Power terminal protection according to IEC/EN 60529 IP20 when properly wired Mechanical features Operating position Fixing Vertical plan allowable ± 30° Fixing Screw / DIN rail 35mm | | | max | Nm | 1 |
| Max number of wires simultaneously connectable Nr. 2 Conductor section AWG/Kcmil max 12 Flexible w/o lug conductor section min mm² mm² 0.75 max mm² 2.5 Flexible c/w lug conductor section min mm² mm² 1.5 max mm² 2.5 Flexible with insulated spade lug conductor section min mm² mm² 1.5 max mm² 2.5 Power terminal protection according to IEC/EN 60529 IP20 when properly wired Mechanical features Operating position normal allowable ±30° Vertical plan ±30° Fixing Screw / DIN rail 35mm | | | min | lbin | 9 |
| AWG/Kcmil max 12 | | | max | lbin | 9 |
| AWG/Kcmil max 12 | Max number of wires | Max number of wires simultaneously connectable | | Nr. | 2 |
| Max | Conductor section | | | | |
| Flexible w/o lug conductor section min mm² 0.75 max mm² 2.5 Flexible c/w lug conductor section min mm² 1.5 max mm² 2.5 Flexible with insulated spade lug conductor section min mm² 1.5 max mm² 2.5 Flexible with insulated spade lug conductor section min mm² 1.5 max mm² 2.5 Power terminal protection according to IEC/EN 60529 Mechanical features Operating position normal allowable ±30° Fixing Fixing Fixing | | AWG/Kcmil | | | |
| min mm² 0.75 max mm² 2.5 Flexible c/w lug conductor section min mm² 1.5 max mm² 2.5 Flexible with insulated spade lug conductor section min mm² 1.5 max mm² 2.5 Flexible with insulated spade lug conductor section min mm² 1.5 max mm² 2.5 Power terminal protection according to IEC/EN 60529 Mechanical features Operating position normal vertical plan allowable ±30° Fixing Fixing Screw / DIN rail 35mm | | | max | | 12 |
| Flexible c/w lug conductor section Flexible c/w lug conductor section min mm² 1.5 max mm² 2.5 | | Flexible w/o lug conductor section | | | |
| Flexible c/w lug conductor section min mm² 1.5 max mm² 2.5 Flexible with insulated spade lug conductor section min mm² 1.5 max mm² 2.5 Flexible with insulated spade lug conductor section min mm² 1.5 max mm² 2.5 Power terminal protection according to IEC/EN 60529 Mechanical features Operating position normal normal allowable ±30° Fixing Fixing Fixing | | | min | mm² | 0.75 |
| min mm² 1.5 max mm² 2.5 Flexible with insulated spade lug conductor section min mm² 1.5 max mm² 1.5 max mm² 2.5 Power terminal protection according to IEC/EN 60529 Power terminal protection according to IEC/EN 60529 Mechanical features Operating position Fixing Tormal allowable ±30° Screw / DIN rail 35mm | | | max | mm² | 2.5 |
| max mm² 2.5 | | Flexible c/w lug conductor section | | | |
| Flexible with insulated spade lug conductor section min mm² 1.5 max mm² 2.5 Power terminal protection according to IEC/EN 60529 Mechanical features Operating position normal vertical plan allowable ±30° Fixing Fixing | | | min | mm² | |
| min mm² 1.5 max mm² 2.5 Power terminal protection according to IEC/EN 60529 Mechanical features Operating position normal vertical plan allowable ±30° Fixing Screw / DIN rail 35mm | | | max | mm² | 2.5 |
| Power terminal protection according to IEC/EN 60529 Mechanical features Operating position normal normal allowable ±30° Fixing Screw / DIN rail 35mm | | Flexible with insulated spade lug conductor section | | | |
| Power terminal protection according to IEC/EN 60529 Mechanical features Operating position normal Vertical plan allowable ±30° Fixing Screw / DIN rail 35mm | | | min | | |
| Power terminal protection according to IEC/EN 60529 Mechanical features Operating position normal Vertical plan allowable ±30° Fixing Screw / DIN rail 35mm | | | max | mm² | |
| Mechanical features Operating position normal Vertical plan allowable ±30° Fixing Screw / DIN rail 35mm | Power terminal protection according to IEC/EN 60529 | | | | |
| Operating position normal Vertical plan allowable ±30° Fixing Screw / DIN rail 35mm | Mechanical features | | | | |
| normal Vertical plan allowable ±30° Fixing Screw / DIN rail 35mm | | | | | |
| Fixing allowable ±30° Screw / DIN rail 35mm | - · | | normal | | Vertical plan |
| Fixing Screw / DIN rail 35mm | | | allowable | | - |
| 35mm | Eiving | | | | |
| Weight g 180 | rixiliy | | | | |
| | Weight | | | g | 180 |





CONTROL RELAY WITH AC COIL 50/60HZ, 110VAC, 3NO AND 1NC, FASTON TERMINALS

| Conductor section | | | | |
|--|--|---|---|---|
| | AWG/kcmil conductor section | | | |
| A 10 | | max | | 12 |
| Auxiliary contact charact | teristics | | ^ | 4.0 |
| Thermal current Ith | | | Α | 10 |
| IEC/EN 60947-5-1 design | | | | A600 - Q600 |
| Operating current AC15 | | 0001/ | | • |
| | | 230V | A | 3 |
| | | 400V | A | 1.9 |
| 0 | | 500V | Α | 1.4 |
| Operating current DC12 | <u>'</u> | 4401/ | | |
| 0 " 10010 | | 110V | Α | 2.9 |
| Operating current DC13 | 3 | 0.417 | | 0.0 |
| | | 24V | A | 2.9 |
| | | 48V | A | 1.4 |
| | | 60V | A | 1.1 |
| | | 125V | A | 0.3 |
| | | 220V 600V | A | 0.1 |
| Operations | | δυυν | Α | 0.6 |
| Mechanical life | | | cycles | 20000000 |
| Safety related data | | | cycles | 2000000 |
| | d according to EN/ISO 13489-1 | | | |
| renomance level broc | d according to ETV/ISO 15469-1 | mechanical load | ovoloo | 20000000 |
| Mirror contata accordina | 7 to IEC/EN 600474 4 1 | mechanical load | cycles | YES |
| | g to IEC/EN 609474-4-1 | | | |
| EMC compatibility AC coil operating | | | | yes |
| • | | | | |
| Rated AC voltage at 50/ | /60Hz | | \/ | 110 |
| | /60Hz | | V | 110 |
| AC operating voltage | | | V | 110 |
| AC operating voltage | of 50/60Hz coil powered at 50Hz | | V | 110 |
| AC operating voltage | | min | | |
| AC operating voltage | of 50/60Hz coil powered at 50Hz | min | %Us | 75 |
| AC operating voltage | of 50/60Hz coil powered at 50Hz pick-up | min max | | |
| AC operating voltage | of 50/60Hz coil powered at 50Hz | max | %Us %Us | 75 115 |
| AC operating voltage | of 50/60Hz coil powered at 50Hz pick-up | max min | %Us %Us %Us | 75 115 20 |
| AC operating voltage | of 50/60Hz coil powered at 50Hz pick-up drop-out | max | %Us %Us | 75 115 |
| AC operating voltage | of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz | max min | %Us %Us %Us | 75 115 20 |
| AC operating voltage | of 50/60Hz coil powered at 50Hz pick-up drop-out | max min max | %Us %Us %Us %Us | 75 115 20 55 |
| AC operating voltage | of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz | max min max min | %Us %Us %Us %Us | 75 115 20 55 |
| AC operating voltage | of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up | max min max | %Us %Us %Us %Us | 75 115 20 55 |
| AC operating voltage | of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz | max min max min | %Us %Us %Us %Us %Us | 75 115 20 55 80 115 |
| AC operating voltage | of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up | max min max min max min max min | %Us %Us %Us %Us %Us | 75 115 20 55 80 115 |
| AC operating voltage | of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out | max min max min max | %Us %Us %Us %Us %Us | 75 115 20 55 80 115 |
| AC operating voltage AC average coil consum | of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out | max min max min max min max min | %Us %Us %Us %Us %Us | 75 115 20 55 80 115 |
| AC operating voltage AC average coil consum | of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out | max min max min max min max | %Us %Us %Us %Us %Us %Us %Us | 75 115 20 55 80 115 20 55 |
| AC operating voltage AC average coil consum | of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out | max min max min max min max in-rush | %Us %Us %Us %Us %Us %Us | 75 115 20 55 80 115 20 55 |
| AC operating voltage AC average coil consum | of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out nption at 20°C of 50/60Hz coil powered at 50Hz | max min max min max min max | %Us %Us %Us %Us %Us %Us %Us | 75 115 20 55 80 115 20 55 |
| AC operating voltage AC average coil consum | of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out | max min max min max min max in-rush holding | %Us %Us %Us %Us %Us %Us %Us %Us | 75 115 20 55 80 115 20 55 |
| AC operating voltage AC average coil consum | of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out nption at 20°C of 50/60Hz coil powered at 50Hz | max min max min max min max in-rush holding in-rush | %Us %Us %Us %Us %Us %Us %Us VA VA | 75 115 20 55 80 115 20 55 30 4 |
| AC operating voltage AC average coil consum | of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 50Hz | max min max min max min max in-rush holding | %Us %Us %Us %Us %Us %Us %Us %Us | 75 115 20 55 80 115 20 55 |
| AC operating voltage AC average coil consum | of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out nption at 20°C of 50/60Hz coil powered at 50Hz | max min max min max min max in-rush holding in-rush holding | %Us %Us %Us %Us %Us %Us VA VA | 75 115 20 55 80 115 20 55 30 4 |
| AC average coil consum | of 50/60Hz coil powered at 50Hz pick-up drop-out of 50/60Hz coil powered at 60Hz pick-up drop-out of 50/60Hz coil powered at 50Hz of 50/60Hz coil powered at 50Hz | max min max min max min max in-rush holding in-rush | %Us %Us %Us %Us %Us %Us %Us VA VA | 75 115 20 55 80 115 20 55 30 4 |

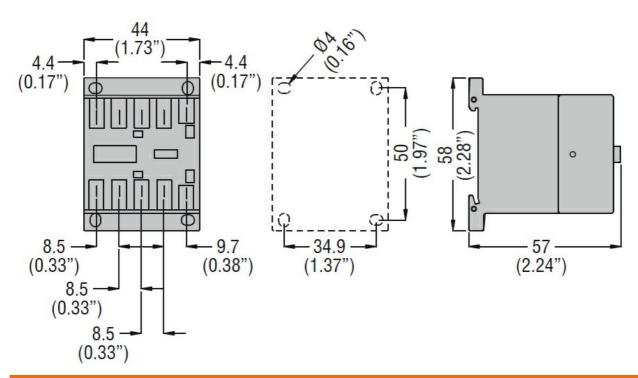




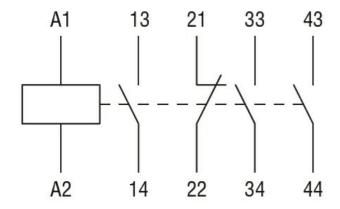
CONTROL RELAY WITH AC COIL 50/60HZ, 110VAC, 3NO AND 1NC, FASTON TERMINALS

| Dissipation at holding | <20°C 50∐-7 | | | W | 0.95 |
|-----------------------------|------------------------|--|-----|-----------|-------------|
| Max cycles frequency | ≥20 C 30HZ | | | VV | 0.95 |
| Mechanical operation | | | | cycles/h | 3600 |
| Operating times | | | | Cycles/II | 3000 |
| Average time for Us co | ontrol | | | | |
| Average lime for US CC | in AC | | | | |
| | III AC | Closing NO | | | |
| | | Closing NO | min | ms | 12 |
| | | | max | ms | 21 |
| | | Opening NO | max | 1113 | 21 |
| | | Opening 140 | min | ms | 9 |
| | | | max | ms | 18 |
| | | Closing NC | max | 1110 | 10 |
| | | 2.03g . (2 | min | ms | 17 |
| | | | max | ms | 26 |
| | | Opening NC | | | |
| | | o positive de la constantina della constantina d | min | ms | 7 |
| | | | max | ms | 17 |
| | in DC | | | | |
| | 0 | Closing NO | | | |
| | | J 11 9 1 | min | ms | 18 |
| | | | max | ms | 25 |
| | | Opening NO | | | |
| | | | min | ms | 2 |
| | | | max | ms | 3 |
| | | Closing NC | | | |
| | | - | min | ms | 3 |
| | | | max | ms | 5 |
| | | Opening NC | | | |
| | | | min | ms | 11 |
| | | | max | ms | 17 |
| UL technical data | | | | | |
| Contact rating of auxilia | ary contacts according | to UL | | | A600 - Q600 |
| Ambient conditions | | | | | |
| Temperature | | | | | |
| | Operating temperatur | re | | | |
| | | | min | °C | -50 |
| | | | max | °C | +70 |
| | Storage temperature | | | | |
| | | | min | °C | -60 |
| | | | max | °C | +80 |
| Max altitude | | | | m | 3000 |
| Resistance & Protection | n | | | | |
| Dollution dograp | | | | | 3 |
| Pollution degree Dimensions | | | | | 3 |





Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-5-1

IEC/EN 60947-1

IEC/EN 60947-5-1

UL 60947-1

UL 60947-5-1

Certificates

CCC

cULus

EAC

ETIM classification

ETIM 8.0

EC000196 -Contactor relay